

## AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph beginning on Page 20, line 4, as follows:

The Bayesian-probability-based repartitioning, undertaken in step 1508 of the iterative feature-mask refinement routine illustrated in Figure 15, is based on the following probability models for each channel:

$$P(F / i, x) = \frac{P(F, i, x)}{P(i, x)} = \frac{P(i / x, F)P(F, x)}{P(i, x)} = \frac{P(i / x, F)P(F / x)P(x)}{P(i, x)}$$

$$P(B / i, x) = \frac{P(B, i, x)}{P(i, x)} = \frac{P(i / x, B)P(B, x)}{P(i, x)} = \frac{P(i / x, B)P(B / x)P(x)}{P(i, x)}$$